Question: 765÷12

12x10=120  
  **765-120=645**  
12x10-120  
  **645-120=525**  
12x10=120  
  **525-120=405**  
12x10=120  
  **305-120=285**  
12x10-120  
  **185-120=165**  
12x10=120  
  **165-120=45**

You now know that 12x**60**=720

765-720=45

How many 12’s in 45?

12x**3**=36 remainder 9

60+3=36 remainder 9

Answer: 765÷12=63 r9

**Question: 765÷12**

Start by partitioning 765 as in the grid below:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | ÷ | 700 | 60 | 5 | | 12 |  |  |  | |

First box needs 700÷12, this is quite had to work out so lets make it easier:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | ÷ | 7**2**0 | **4**0 | 5 | | 12 | **60** |  |  | |

720÷12=60 (because 72÷12=6)

The second box needs 40÷12=3 remainder 4:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | ÷ | 7**2**0 | **4**0 | 5 | | 12 | **60** | **3** |  | |

The remainder(4) is added to the last box - see grid below:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | ÷ | 7**2**0 | **4**0 | ~~5~~ **9** | | 12 | **60** | **3** | **0 r9** | |

Now all you need to do is add.

60+3+0=63 r9

Answer: 765÷12=63 r9